Idaho Custom Rates Guide 2019



Ben Eborn and Ashlee Westerhold

Background

The University of Idaho conducts a Custom Rates Survey every 4-5 years. This summary is the product of an online survey which collected rates farmers paid for custom work performed in 2019. The numbers are based on surveys received from custom operators, farmers who hired custom work and farmers who performed custom work. There were 62 responses received. This bulletin does not distinguish between rates charged by specialized custom operators and those charged by farmers who do custom work as a secondary source of income.

Using the Data

Statewide averages and typical ranges are in this bulletin and are based on actual reported data. The ranges provided for each custom operation include at least 90 percent of the reported values. Figures which were widely outside the range of other responses were removed from the report. Rates are typically influenced by fuel costs, interest rates, soil conditions, topography, field size and shape, traditional practices in the area, and type of equipment used. Price changes for machinery, fuel, and labor should be considered when using the 2019 data in subsequent years

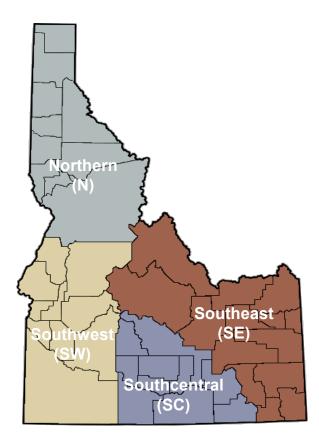
Idaho Geography

Idaho varies greatly in topography, climate, soils, and other variables affecting agricultural production. Consequently, a wide variety of crop/livestock enterprises and management systems exists. Because of the variability, production costs can differ from one area to another and even between adjacent farms or ranches.



Regional & Statewide

The statewide average and range as well as region level rates were included where enough data were available. Custom rates reported in this bulletin are tied to four geographic regions of Idaho based on similar geography and farming practices. Please refer to Figure 1.



List of Tables

- Table A.Land Tillage Operations
- Table B.
 Fertilizer & Chemical Applications
- Table C.Aerial Applications
- **Table D.**Row Mark out & Fumigation
- Table E.Planting Operations
- Table F.
 Row Crop Cultivation Operations
- **Table G.**Hay Harvest Operations
- Table H.
 Silage & Green Chop Harvest Operations
- Table I.
 Small Grains, Dry Bean, Dry Peas, Corn & Seed Harvest Operations
- Table J.Manure Services



	Table A. LA	ND TILLAGE O	DPERATIONS ,	IDAHO, 2019				
Operation	Range	Statewide	Number of	Regional Averages				
Operation	in Rates	Average	Responses	N	SW	SC	SE	
	Dollars per	acre			Dollars per acre			
Chisel plow	15.00-35.00	22.50	10		35.50	19.50	19.85	
Disk/ripper/harrow combination	20.00-35.00	28.60	12		27.00	32.40	25.70	
Field cultivator	12.00-32.00	20.00	11		22.50	24.00	17.70	
Moldboard plow	24.00-55.00	36.70	9		40.70	34.50	34.75	
Rotary hoe	12.00-28.00	17.25	4		20.00	15.00	14.00	
Soil finisher	15.00-24.00	18.45	7		15.00	23.00	17.00	
Strip tillage	16.00-25.00	20.50	2			25.00	16.00	
Subsoiling	18.00-25.00	21.50	2			25.00	18.00	
Vertical tillage	12.50-18.00	15.25	2	12.50			18.00	
Finishing disk	12.00-32.00	20.00	6		32.00	20.00	17.00	
Offset disk	18.00-39.00	23.25	8		25.70	22.35	21.00	
Tandem disk	12.00-25.00	18.85	6		18.00	22.00	18.25	
Disk w/ digger & drag	22.00-55.00	36.00	2		50.00		22.00	
Triple K	15.00-33.00	24.50	4		24.50			
Roller harrow	12.00-20.00	15.25	8		16.70	20.00	13.00	
Spike tooth/flexible harrow	7.00-32.00	15.00	6		23.50	12.00	10.35	
Land plane	9.00-33.00	23.40	5		27.70	25.00	9.00	

	Table B. FERTILI	ZER & CHEMIC	AL APPLICAT	IONS, IDAHO	, 2019		
Oneration	Range	Statewide	Number of		Regional	Averages	
Operation	in Rates	Average	Responses	N	SW	SC	SE
	Dollars pe	r acre			Dollars	per acre	
Dry fertilizer broadcast:							
0-750 lbs	5.00-8.95	7.40	10			7.50	7.35
500-1,500 lbs	5.00-9.75	8.30	10			8.00	8.35
Variable rate (1-2 products)	5.00-11.55	9.25	7			10.00	9.15
Variable rate (3-4 products)	5.00-15.00	11.70	8			10.00	11.95
Liquid fertilizer:							
Broadcast spray	7.00-14.00	8.55	10	9.00	14.00	7.75	7.80
Shank-in or markout	8.00	8.00	1			8.00	
Sidedress	8.00-39.00	19.45	4		30.50	8.00	8.80
Spraying chemicals by volume:							
10 gallons or less	5.50-8.15	7.20	12	6.25		7.35	7.40
11-20 gallons	6.50-9.00	8.05	8			8.00	8.05
21-30 gallons	8.00-10.50	9.45	7			9.00	9.60
Spraying chemicals by crop:							
Grain, alfalfa, pulse crops	6.50-8.90	7.50	7			7.50	7.50
Potatoes, sugarbeets, onions	6.50-13.00	8.75	4			10.50	7.00
Applying sulfuric acid:							
10-20 gallons	8.00-14.00	10.50	3			8.00	11.75
21-30 gallons	8.00-20.00	12.90	4			8.00	14.50
More than 30 gallons	8.00-14.00	11.00	2			8.00	14.00
Spray & incorporate	39.00	39.00	1		39.00		



Table C. AERIAL APPLICATIONS, IDAHO, 2019										
Operation	Range	Statewide	Number of	Regional Averages						
Operation	in Rates	Average	Responses	N	SW	SC	SE			
	Dollars per	acre			Dollars	per acre				
Dry product:										
Less than 100 lb	8.00	8.00	1			8.00				
More than 100 lb	9.00	9.00	1			9.00				
Liquid product:										
3 gallons	8.00	8.00	1			8.00				
5 gallons	8.00-12.00	10.00	2			8.00	12.00			
7.5 gallons	9.00	9.00	1			9.00				
10 gallons	9.25-10.00	9.65	2			10.00	9.25			
Seeding										

Table D. ROV	Table D. ROW MARKOUT & FUMIGATION, IDAHO, 2019									
Operation	Range	Statewide	Number of		•					
operation	in Rates	Average	Responses	SW	SC	SE				
	Dollars per	acre								
Row markout:										
Dry row markout: no product applied	20.00-25.00	21.25	4	20.00	25.00	20.00				
Row markout with one product: 0-30 gal.	23.00-30.00	26.50	2	23.00	30.00					
Row markout with two products: 31-45 gal.										
Row markout, fertilize & fumigate (Vapam or K-Pam)	25.00-40.00	35.00	3	25.00	40.00	40.00				
Fumigation:										
Shanked with chisel plow: 30-40 gals. (Vapam or K-Pam)	40.00-42.00	40.70	3	40.00	40.00	42.00				
Ripper or disk ripper with steel roller (Telone)	40.00-45.00	45.00	3	40.00	50.00	45.00				
Ripper or disk ripper with steel roller (Telone + Vapam)	50.00-60.00	55.00	2		60.00	50.00				
Strip tillage:										
Row markout & fertilize: 22" rows	30.00	30.00	1			30.00				

Table E. F	PLANTING	OPER/	ATIONS,	IDAHO,	2019	

Operation	Range	Statewide	Numbrer of		Regional	Averages	
Operation	in Rates	Average	Responses	N	SW	SC	SE
	Dollars per	acre			Dollars	per acre	
Small Grains							
Conventional till	12.00-35.00	23.55	11	22.00	26.50	25.70	21.40
Mulch till	17.00-20.00	18.50	2	20.00		17.00	
No-till	14.00-35.00	20.30	7	20.00	35.00		17.40
No-till and fertilizer	23.00-30.00	25.80	8	27.85			24.60
Alfalfa							
Conventional till	12.00-35.00	21.30	7		33.00	26.50	15.75
Mulch till	18.00-20.00	19.00	2	20.00		18.00	
No-till	20.00-24.00	22.00	2	20.00			24.00
Corn							
Less than 30" rows	20.00-30.00	23.25	4		22.00	25.50	20.00
30" rows and greater	20.00-40.00	31.00	3		36.50	20.00	
Dry Beans	21.00-22.00	21.70	3	22.00	22.00	21.00	
Sugargeets	20.00-33.00	26.25	4		27.50	30.00	20.00
Potatoes	24.00-45.00	36.35	3			45.00	32.00



Table F. ROW CROP CULTIVATION OPERATIONS, IDAHO, 2019									
Operation	Range	Statewide	Number of						
Operation	in Rates	Average	Responses	SW	SC	SE			
	Dollars per	acre							
Row cultivator:									
With fertilizer									
Without fertilizer	15.00-32.00	25.00	3	30.00	15.00				
Corrugate	15.00-32.00	25.00	3	30.00	15.00				
Hill potatoes	18.00	18.00	1			18.00			
Basin tillage/dammer diker	20.00-28.00	24.00	2		28.00	20.00			

	Table G. HAY		,	AHO, 2019		-	
Operation	Range	Statewide	Number of			Averages	
	in Rates	Average	Responses	N	SW	SC	SE
	Dollars per	acre			Dollars	per acre	
Mowing and conditioning	14.00-31.00	18.90	27	18.50	19.35	18.80	18.95
Mowing only	18.00-19.00	18.50	2	19.00			18.00
Raking	4.00-12.00	6.90	21	5.00	11.50	7.75	6.15
Windrow merging	8.00-12.00	10.00	2		10.00		
Baling:	Dollars per	r bale			Dollars	per bale	
Small square 2-string	0.50-3.75	1.30	8		0.65	1.85	1.25
Small square 3-string							
Large square 3' x 3'	9.00-11.00	9.70	3				9.70
Large square 3' x 4'	15.00-16.00	15.60	5	15.00	16.00	16.00	15.50
Large square 4' x 4'	12.00-20.00	16.15	13		18.00	18.00	15.35
Round 4' wide	8.00-12.00	10.00	2	8.00			12.00
Round 5' wide							
Retrieve and stack:							
Small square 2-string	0.45-1.20	0.80	6		0.63	0.45	1.05
Small square 3-string							
Large square 3' x 3'	1.00-5.00	3.70	3				3.65
Large square 3' x 4'	3.00-6.00	4.50	6	3.00	6.00		4.50
Large square 4' x 4'	3.00-5.00	4.40	11		5.00	4.50	4.30
Round 4' wide							
Round 5' wide	7.00	7.00	1				7.00
Combination (mow, rake, bale, stack):							
Small square 2-string	2.00-3.00	2.50	2			2.00	3.00
Small square 3-string							
Large square 3' x 3'	20.25-22.00	21.15	2				21.15
Large square 3' x 4'	25.35-27.00	29.45	3	26.00	37.00		25.35
Large square 4' x 4'	35.00-55.00	40.00	8			46.70	36.00
Round 4' wide	40.00	40.00	1				40.00
Round 5' wide							



Table	Table H. SILAGE & GREEN CHOP HARVEST OPERATIONS, IDAHO, 2019								
Operation	Range	Statewide	Number of		Regional	Averages			
Operation	in Rates	Average	Responses	N	SW	SC	SE		
	Dollars per	ton			Dollars	per ton			
Corn silage:									
Chop only									
Haul less than 1 mile	12.00	12.00	1				12.00		
Haul more than 1 mile plus \$/ton/mile									
Pack									
Chop, short haul & pack	9.00	9.00	1			9.00			
Green chop hay & grain:									
Chop only									
Rake, chop, short haul & pack									
Haul less than 1 mile									
Haul more than 1 mile plus \$/ton/mile									

Table I. SMALL GRAINS, DRY BEANS, DRY PEAS, CORN & SEED HARVEST OPERATIONS, IDAHO, 2019

• "	Range	Statewide	Number of		Regional	Averages	
Operation	in Rates	Average	Responses	N	SW	SC	SE
	Dollars per	acre			Dollars p	per acre	•
Combine/thrash standing:							
Small grains irrigated	27.00-75.00	44.40	10		66.00	58.50	37.30
Small grains dryland	20.00-40.00	30.00	6	37.50			26.25
Dry beans or peas	35.00-80.00	57.50	2	35.00	80.00		
Corn	55.00-80.00	70.70	3		77.00	55.00	80.00
Seed crops (alfalfa, clover, grass)	110	110.00	1		110.00		
Cut & windrow beans							
Combine/thrash in windrow:	35.00-80.00	65.00	3	35.00	80.00		
Dry beans or peas	35.00-51.00	45.30	3	35.00	50.00	51.00	
Combine/thrash in windrow:	Dollars per	cwt			Dollars	per cwt	
Dry beans or peas	1.70	1.70	1			1.70	
Dry beans: garden or seed							
Hauling	Dollars per b	oushel		Dollars per bushel			
Field to farm	0.10-0.80	0.40	7	0.18	0.75	0.50	0.35
Farm to market	0.20-0.75	0.35	11	0.30	0.75	0.35	0.35

References and Other Useful Links

Painter, K. 2011. The Costs of Owning and Operating Farm Machinery in the Pacific Northwest. PNW 346. Moscow, ID: University of Idaho Extension. <u>http://www.extension.uidaho.edu/publishing/pdf/PNW/PNW0346/PNW346.pdf</u>

University of Idaho. Machinery Cost Calculator. <u>https://www.uidaho.edu/cals/idaho-agbiz/tools</u>

Idaho AgBiz website, University of Idaho Department of Agricultural Economics and Rural Sociology: <u>https://www.uidaho.edu/cals/idaho-agbiz</u>

Iowa State University. Farm Custom Rates Survey: https://www.extension.iastate.edu/agdm/crops/pdf/a3-10.pdf



USDA NASS. Wisconsin Custom Rate Guide 2017: https://fyi.extension.wisc.edu/danecountyag/files/2018/06/WI-CRate17.pdf

The authors— Ben Eborn and Ashlee Westerhold, Agricultural Area Economists, University of Idaho Agricultural Economics and Rural Sociology.

Acknowledgements

The authors appreciate and would like to acknowledge the cooperation of the farmers, custom operators, and other agribusinesses who willingly took part in the survey upon which this publication is based. We would also like to acknowledge the many Extension educators and their office staff for assisting with data collection.

